VOLUME XXXI

INDEX OF PAPERS BY AUTHORS

Author	*Title*	*Page*
ABDELMALEK, NABIH N.	Computing the Strict Chebyshev Solution of Overdetermined Linear Equations	974
ALFELD, P. & LAMBERT, J. D.	Correction in the Dominant Space: A Numerical Technique for a Certain Class of Stiff Initial Value Problems	922
ANGELL, I. O. & GODWIN, H. J.	On Truncatable Primes	265
BAKER, GARTH A.	Finite Element Methods for Elliptic Equations Using Nonconforming Elements	45
BAKER, GARTH A., BRAMBLE, JAMES H. & THOMÉE, VIDAR	Single Step Galerkin Approximations for Parabolic Problems	818
BARROW, DAVID L.	Gauss Interpolation Formulas and Totally Positive Kernels	984
BAUER, F. L.	Angstl's Mechanism for Checking Wellformedness of Parenthesis-Free Formulae	318
BERGER, ALAN E. & FALK, RICHARD S.	An Error Estimate for the Truncation Method for the Solution of Parabolic Obstacle Variational Inequalities	619
BERMAN, JOEL & HANES, KIT	Optimizing the Arrangement of Points on the Unit Sphere	1006
BOAS, R.P., JR.	Growth of Partial Sums of Divergent Series	257
de BOOR, CARL & SWARTZ, BLAIR	Comments on the Comparison of Global Methods for Linear Two-Point Boundary Value Problems	916
BRAMBLE, JAMES H.	See: BAKER, GARTH A., BRAMBLE, JAMES H. & THOMÉE, VIDAR	818
BRAMBLE, J. H. & SCHATZ, A. H.	Higher Order Local Accuracy by Averaging in the Finite Element Method	94
BRANDT, ACHI	Multi-Level Adaptive Solutions to Boundary-Value Problems	333
BRENT, RICHARD P.	Computation of the Regular Continued Fraction for Euler's Constant	771
BREZZI, F., JOHNSON, C. & MERCIER, B.	Analysis of a Mixed Finite Element Method for Elasto-Plastic Plates	809
BRUNNER, HERMANN	Discretization of Volterra Integral Equations of the First Kind	708
BUELL, DUNCAN A.	Small Class Numbers and Extreme Values of L-Functions of Quadratic Fields	786
BUELL, D. A., WILLIAMS, H. C. & WILLIAMS, K. S.	On the Imaginary Bicyclic Biquadratic Fields With Class-Number 2	1034
BUNCH, JAMES R. & KAUFMAN, LINDA	Some Stable Methods for Calculating Inertia and Solving Symmetric Linear Systems	163
CATO, CRAIG	The Orders of the Known Simple Groups as Far as One Trillion	574
CHEN, NAI-FU	Inverse Iteration on Defective Matrices	726
CHUI, CHARLES K., SMITH, PHILIP W. & WARD, JOSEPH D.	On the Smoothness of Best L_2 Approximants from Nonlinear Spline Manifolds	17
COHEN, M. E.	Some Classes of Generating Functions for the Laguerre and Hermite Polynomials	511
CUSICK, T. W.	The Szekeres Multidimensional Continued Fraction	280
DERENZO, STEPHEN E.	Approximations for Hand Calculators Using Small Integer Coefficients	214
DIJKSTRA, D.	A Continued Fraction Expansion for a Generalization of Dawson's Integral	503

VOLUME XXXI

INDEX OF PAPERS BY AUTHORS

Author	*Title*	*Page*
ABDELMALEK, NABIH N.	Computing the Strict Chebyshev Solution of Overdetermined Linear Equations	974
ALFELD, P. & LAMBERT, J. D.	Correction in the Dominant Space: A Numerical Technique for a Certain Class of Stiff Initial Value Problems	922
ANGELL, I. O. & GODWIN, H. J.	On Truncatable Primes	265
BAKER, GARTH A.	Finite Element Methods for Elliptic Equations Using Nonconforming Elements	45
BAKER, GARTH A., BRAMBLE, JAMES H. & THOMÉE, VIDAR	Single Step Galerkin Approximations for Parabolic Problems	818
BARROW, DAVID L.	Gauss Interpolation Formulas and Totally Positive Kernels	984
BAUER, F. L.	Angstl's Mechanism for Checking Wellformedness of Parenthesis-Free Formulae	318
BERGER, ALAN E. & FALK, RICHARD S.	An Error Estimate for the Truncation Method for the Solution of Parabolic Obstacle Variational Inequalities	619
BERMAN, JOEL & HANES, KIT	Optimizing the Arrangement of Points on the Unit Sphere	1006
BOAS, R.P., JR.	Growth of Partial Sums of Divergent Series	257
de BOOR, CARL & SWARTZ, BLAIR	Comments on the Comparison of Global Methods for Linear Two-Point Boundary Value Problems	916
BRAMBLE, JAMES H.	See: BAKER, GARTH A., BRAMBLE, JAMES H. & THOMÉE, VIDAR	818
BRAMBLE, J. H. & SCHATZ, A. H.	Higher Order Local Accuracy by Averaging in the Finite Element Method	94
BRANDT, ACHI	Multi-Level Adaptive Solutions to Boundary-Value Problems	333
BRENT, RICHARD P.	Computation of the Regular Continued Fraction for Euler's Constant	771
BREZZI, F., JOHNSON, C. & MERCIER, B.	Analysis of a Mixed Finite Element Method for Elasto-Plastic Plates	809
BRUNNER, HERMANN	Discretization of Volterra Integral Equations of the First Kind	708
BUELL, DUNCAN A.	Small Class Numbers and Extreme Values of L-Functions of Quadratic Fields	786
BUELL, D. A., WILLIAMS, H. C. & WILLIAMS, K. S.	On the Imaginary Bicyclic Biquadratic Fields With Class-Number 2	1034
BUNCH, JAMES R. & KAUFMAN, LINDA	Some Stable Methods for Calculating Inertia and Solving Symmetric Linear Systems	163
CATO, CRAIG	The Orders of the Known Simple Groups as Far as One Trillion	574
CHEN, NAI-FU	Inverse Iteration on Defective Matrices	726
CHUI, CHARLES K., SMITH, PHILIP W. & WARD, JOSEPH D.	On the Smoothness of Best L_2 Approximants from Nonlinear Spline Manifolds	17
COHEN, M. E.	Some Classes of Generating Functions for the Laguerre and Hermite Polynomials	511
CUSICK, T. W.	The Szekeres Multidimensional Continued Fraction	280
DERENZO, STEPHEN E.	Approximations for Hand Calculators Using Small Integer Coefficients	214
DIJKSTRA, D.	A Continued Fraction Expansion for a Generalization of Dawson's Integral	503

Author	Title	Page
DURBIN, JOHN R. & FARMER, K. BOLLING	On Projective Representations of Finite Wreath Products	527
ENGQUIST, BJORN & MAJDA, ANDREW	Absorbing Boundary Conditions for the Numerical Simulation of Waves	629
FALK, RICHARD S.	See: BERGER, ALAN E. & FALK, RICHARD S.	619
FARMER, K. BOLLING	See: DURBIN, JOHN R. & FARMER, K. BOLLING	527
FELDSTEIN, ALAN & TRAUB, J. F.	Asymptotic Behavior of Vector Recurrences with Applications	180
FIELD, DAVID A.	Estimates of the Speed of Convergence of Continued Fraction Expansions of Functions	495
FLAHERTY, JOSEPH E. & O'MALLEY, R. E., JR.	The Numerical Solution of Boundary Value Problems for Stiff Differential Equations	66
FORD, J. A.	A Generalization of the Jenkins-Traub Method	193
FRANK, REINHARD, HERTLING, JOERG & UEBERHUBER, CHRISTOPH W.	An Extension of the Applicability of Iterated Deferred Corrections	907
GAUTSCHI, WALTER	Anomalous Convergence of a Continued Fraction for Ratios of Kummer Functions	994
GAY, DAVID	Modifying Singular Values: Existence of Solutions to Systems of Nonlinear Equations Having a Possibly Singular Jacobian Matrix	962
GODWIN, H. J.	See: ANGELL, I. O. & GODWIN, H. J.	265
GOLDBERG, MOSHE	On a Boundary Extrapolation Theorem by Kreiss	469
GOLDFINE, ALAN	Taylor Series Methods for the Solution of Volterra Integral and Integro-Differential Equations	691
GUNZBURGER, MAX D.	On the Stability of Galerkin Methods for Initial-Boundary Value Problems for Hyperbolic Systems	661
GUTKNECHT, MARTIN H.	Existence of a Solution to the Discrete Theodorsen Equation for Conformal Mappings	478
HAGIS, PETER, JR. & LORD, GRAHAM	Quasi-Amicable Numbers	608
HANES, KIT	See: BERMAN, JOEL & HANES, KIT	1006
HENNART, J. P.	One-Step Piecewise Polynomial Multiple Collocation Methods for Initial Value Problems	24
HENRY, JACKSON N.	Comparison of Algorithms for Multivariate Rational Approximation	485
HERTLING, JOERG	See: FRANK, REINHARD, HERTLING, JOERG & UEBERHUBER, CHRISTOPH W.	907
HOLTE, R.	See: WILLIAMS, H. C. & HOLTE, R.	778
de HOOG, FRANK R. & WEISS, RICHARD	The Application of Linear Multistep Methods to Singular Initial Value Problems	676
HORNER, T. S.	See: MORRIS, A. G. & HORNER, T. S.	881
HOSKINS, W. D. & MEEK, D. S.	The Infinity Norm of a Certain Type of Symmetric Circulant Matrix	733
HOUSTIS, E. N.	Application of Method of Collocation on Lines for Solving Nonlinear Hyperbolic Problems	443
HOWARD, F. T.	Numbers Generated by the Reciprocal of $e^x - x - 1$	581
ISERLES, ARIEH	Functional Fitting—New Family of Schemes for Integration of Stiff O. D. E.	112
JELTSCH, ROLF	Multistep Methods Using Higher Derivatives and Damping at Infinity	124
JERRI, A. J.	Computations of the Hill Functions of Higher Order	481
JESPERSEN, DENNIS C.	A Least Squares Decomposition Method for Solving Elliptic Equations	873
JOHNSON, C.	See: BREZZI, F., JOHNSON, C. & MERCIER, B.	809
JOHNSON, WELLS	On Congruences Related to the First Case of Fermat's Last Theorem	519

Author	*Title*	*Page*
KAUFMAN, LINDA	See: BUNCH, JAMES R. & KAUFMAN, LINDA	163
KINDERMAN, A. J., MONAHAN, J. F. & RAMAGE, J. G.	Computer Methods for Sampling From Student's t Distribution	1009
KISHORE, MASAO	Odd Perfect Numbers Not Divisible by 3 Are Divisible by at Least Ten Distinct Primes	274
LAMBERT, J. D.	See: ALFELD, P. & LAMBERT, J. D.	922
LEHMER, D. H.	Prime Factors of Cyclotomic Class Numbers	599
LE ROUX, A. Y.	A Numerical Conception of Entropy for Quasi-Linear Equations	848
LETHER, F. G.	Subtracting Out Complex Singularities in Numerical Integration	223
LONG, F. W.	Corrections to Dickson's Table of Three Dimensional Division Algebras Over F_5	1031
LORD, GRAHAM	See: HAGIS, PETER, JR. & LORD, GRAHAM	608
McALLISTER, DAVID F., PASSOW, ELI & ROULIER, JOHN A.	Algorithms for Computing Shape Preserving Spline Interpolations to Data	717
McCARTHY, D. P.	The Optimal Algorithm to Evaluate x^n Using Elementary Multiplication Methods	251
MAJDA, ANDREW	See: ENGQUIST, BJORN & MAJDA, ANDREW	629
MATTHEW, G. & WILLIAMS, H. C.	Some New Primes of the Form $k \cdot 2^n + 1$	797
MEEK, D. S.	See: HOSKINS, W. D. & MEEK, D. S.	733
MEIJERINK, J. A. & van der VORST, H. A.	An Iterative Solution Method for Linear Systems of Which the Coefficient Matrix is a Symmetric M-Matrix	148
MERCIER, B.	See: BREZZI, F., JOHNSON, C. & MERCIER, B.	809
MIEL, GEORGE	On A Posteriori Error Estimates	204
MOENCK, ROBERT T.	On the Efficiency of Algorithms for Polynomial Factoring	235
MONAHAN, J. F.	See: KINDERMAN, A. J., MONAHAN, J. F. & RAMAGE, J. G.	1009
MORRIS, A. G. & HORNER, T. S.	Chebyshev Polynomials in the Numerical Solution of Differential Equations	881
MOSEVICH, JACK W.	Identifying Differential Equations by Galerkin's Method	139
NATTERER, FRANK	Uniform Convergence of Galerkin's Method for Splines on Highly Nonuniform Meshes	457
NICOLAIDES, R. A.	On the l^2 Convergence of an Algorithm for Solving Finite Element Equations	892
OJALA, T.	Euclid's Algorithm in the Cyclotomic Field $Q(\zeta_{16})$	268
O'MALLEY, R. E., JR.	See: FLAHERTY, JOSEPH E. & O'MALLEY, R. E., JR.	66
PARRY, CHARLES J.	Real Quadratic Fields With Class Numbers Divisible by Five	1019
PASSOW, ELI	See: McALLISTER, DAVID F., PASSOW, ELI & ROULIER, JOHN A.	717
PEREYRA, VICTOR, PROSKUROWSKI, WŁODZIMIERZ & WIDLUND, OLOF	High Order Fast Laplace Solvers for the Dirichlet Problem on General Regions	1
PEXTON, ROBERT L. & STEIGER, ARNO D.	Roots of Two Transcendental Equations Involving Spherical Bessel Functions	752
PEXTON, ROBERT L. & STEIGER, ARNO D.	Roots of Two Transcendental Equations Determining the Frequency Spectra of Standing Spherical Electromagnetic Waves	1000
PLESKEN, WILHELM & POHST, MICHAEL	On Maximal Finite Irreducible Subgroups of $GL(n, Z)$. I. The Five and Seven Dimensional Cases	536
PLESKEN, WILHELM & POHST, MICHAEL	On Maximal Finite Irreducible Subgroups of $GL(n, Z)$. II. The Six Dimensional Case	552
POHST, MICHAEL	See: PLESKEN, WILHELM & POHST, MICHAEL	536
POHST, MICHAEL	See: PLESKEN, WILHELM & POHST, MICHAEL	552

Author	*Title*	*Page*
POHST, MICHAEL & ZASSENHAUS, HANS	An Effective Number Geometric Method of Computing the Fundamental Units of an Algebraic Number Field	754
PREPARATA, F. P. & SARWATE, D. V.	Computational Complexity of Fourier Transforms Over Finite Fields	740
PROSKUROWSKI, WŁODZIMIERZ	See: PEREYRA, VICTOR, PROSKUROWSKI, WŁODZIMIERZ & WIDLUND, OLOF	1
RAMAGE, J. G.	See: KINDERMAN, A. J., MONAHAN, J. F. & RAMAGE, J. G.	1009
RAVIART, P. A. & THOMAS, J. M.	Primal Hybrid Finite Element Methods for 2nd Order Elliptic Equations	391
ROULIER, JOHN A.	See: McALLISTER, DAVID F., PASSOW, ELI & ROULIER, JOHN A.	717
SACKS-DAVIS, R.	Error Estimates for a Stiff Differential Equation Procedure	939
SALZER, HERBERT E.	Osculatory and Hyperosculatory Cubature Formulas	230
SAMMON, PETER H.	A Discrete Least Squares Method	60
SARWATE, D. V.	See: PREPARATA, F. P. & SARWATE, D. V.	740
SCHATZ, A. H.	See: BRAMBLE, J. H. & SCHATZ, A. H.	94
SCHATZ, A. H. & WAHLBIN, L. B.	Interior Maximum Norm Estimates for Finite Element Methods	414
SCHETT, ALOIS	Recurrence Formula of the Taylor Series Expansion Coefficients of the Jacobian Elliptic Functions	1003
SIDI, AVRAM	Uniqueness of Padé Approximants From Series of Orthogonal Polynomials	738
SMITH, PHILIP W.	See: CHUI, CHARLES K., SMITH, PHILIP W. & WARD, JOSEPH D.	17
STEIGER, ARNO D.	See: PEXTON, ROBERT L. & STEIGER, ARNO D.	752
STEIGER, ARNO D.	See: PEXTON, ROBERT L. & STEIGER, ARNO D.	1000
SWARTZ, BLAIR	See: de BOOR, CARL & SWARTZ, BLAIR	916
THOMAS, J. M.	See: RAVIART, P. A. & THOMAS, J. M.	391
THOMÉE, VIDAR	High Order Local Approximations to Derivatives in the Finite Element Method	652
THOMÉE, VIDAR	See: BAKER, GARTH A., BRAMBLE, JAMES H. & THOMÉE, VIDAR	818
TOINT, PH. L.	On Sparse and Symmetric Matrix Updating Subject to a Linear Equation	954
TRAUB, J. F.	See: FELDSTEIN, ALAN & TRAUB, J. F.	180
UEBERHUBER, CHRISTOPH W.	See: FRANK, REINHARD, HERTLING, JOERG & UEBERHUBER, CHRISTOPH W.	907
VARAH, J. M.	On the Condition Number of Local Bases for Piecewise Cubic Polynomials	37
van der VORST, H. A.	See: MEIJERINK, J. A. & van der VORST, H. A.	148
WAHLBIN, L. B.	See: SCHATZ, A. H. & WAHLBIN, L. B.	414
WARD, JOSEPH D.	See: CHUI, CHARLES K., SMITH, PHILIP W. & WARD, JOSEPH D.	17
WEINTRAUB, SOL	Seventeen Primes in Arithmetic Progression	1030
WEISS, RICHARD	See: de HOOG, FRANK R. & WEISS, RICHARD	676
WIDLUND, OLOF	See: PEREYRA, VICTOR, PROSKUROWSKI, WLODZIMIERZ & WIDLUND, OLOF	1
WILLIAMS, H. C.	Certain Pure Cubic Fields With Class-Number One	578
WILLIAMS, H. C.	See: MATTHEW, G. & WILLIAMS, H. C.	797
WILLIAMS, H. C.	See: BUELL, D. A., WILLIAMS, H. C. & WILLIAMS, K. S.	1034
WILLIAMS, H. C. & HOLTE, R.	Computation of the Solution of $x^3 + Dy^3 = 1$	778
WILLIAMS, K. S.	See: BUELL, D. A., WILLIAMS, H. C. & WILLIAMS, K. S.	1034
ZASSENHAUS, HANS	See: POHST, MICHAEL & ZASSENHAUS, HANS	754

SUBJECT CLASSIFICATION SYSTEM FOR INDEX OF REVIEWS

The following subject classification system is used for the yearly index of reviews. Individual reviews in the quarterly issues are assigned index classification numbers in simplified form.

1.00 Biography and Bibliography (History)

2.00 Selected Topics in Numerical Analysis

2.05 *Approximation Theory*
- 2.05.1 *Least Squares, Curve Fitting, Harmonic Analysis*
- 2.05.2 *Chebyshev (Best) Approximation*
- 2.05.3 *Interpolation, Extrapolation*
- 2.05.4 *Inverse Interpolation*
- 2.05.5 *Rational Approximation*
- 2.05.6 *Splines*

2.10 *Numerical Integration*
- 2.10.1 *One-Dimensional*
- 2.10.2 *Multi-Dimensional*
- 2.10.3 *Monte Carlo*

2.15 *Numerical Differentiation*

2.20 *Roots of Equations*

2.25 *Evaluation of Series*

2.30 *Continued Fractions*

2.35 *Iteration Methods, Acceleration Techniques*

2.40 *Differences, Divided Differences*

2.45 *Algorithms, General Theory*

2.50 *Inequalities*

2.55 *Stability of Computation, Significance Arithmetic*

2.60 *Complexity of Computation*

3.00 Linear Algebra

3.05 *Matrices*

3.10 *Linear Equations*
- 3.10.1 *Error Analysis*

3.15 *Eigenvalues and Eigenvectors*
- 3.15.1 *Error Analysis*

3.20 *Matrix Inversion and Pseudo-Inverses*
- 3.20.1 *Error Analysis*

3.25 *Linear and Nonlinear Programming, Theory of Games*
- 3.25.1 *Error Analysis*

3.30 *Determinants*

3.35 *Sparse Matrices*

4.00 Ordinary Differential Equations

4.05 *Initial Value Problems*
- 4.05.1 *Analytic Methods*
  - 4.05.1.1 *Error Analysis*
- 4.05.2 *One-Step Methods*
  - 4.05.2.1 *Error Analysis*
- 4.05.3 *Multistep Methods*
  - 4.05.3.1 *Error Analysis*

4.10 *Linear Boundary Value and Eigenvalue Problems*
- 4.10.1 *Analytic Methods*
  - 4.10.1.1 *Error Analysis*
- 4.10.2 *Initial Value (Trial and Error or Shooting) Methods*
  - 4.10.2.1 *Error Analysis*

4.10.3 *Finite Difference (Nonshooting) Methods*
4.10.3.1 *Error Analysis*
4.10.4 *Finite Element Methods*
4.10.4.1 *Error Analysis*
4.15 *Nonlinear Boundary Value and Eigenvalue Problems*
4.15.1 *Analytic Methods*
4.15.1.1 *Error Analysis*
4.15.2 *Initial Value (Trial and Error or Shooting) Methods*
4.15.2.1 *Error Analysis*
4.15.3 *Finite Difference (Nonshooting) Methods*
4.15.3.1 *Error Analysis*

5.00 Partial Differential Equations

5.05 *Initial Value Problems*
5.05.1 *Analytic Methods*
5.05.1.1 *Error Analysis*
5.05.2 *Explicit Difference Methods*
5.05.2.1 *Error Analysis*
5.05.3 *Implicit Difference Methods, Iterative Schemes*
5.05.3.1 *Error Analysis*
5.05.4 *Finite Element and Other Approximation Methods*
5.05.4.1 *Error Analysis*
5.10 *Boundary Value Problems*
5.10.1 *Analytic Methods*
5.10.1.1 *Error Analysis*
5.10.2 *Finite Difference Methods, Iterative Schemes*
5.10.2.1 *Error Analysis*
5.10.3 *Finite Element and Other Approximation Methods*
5.10.3.1 *Error Analysis*
5.15 *Eigenvalue Problems*
5.15.1 *Analytic Methods*
5.15.1.1 *Error Analysis*
5.15.2 *Finite Difference Methods, Iterative Schemes*
5.15.2.1 *Error Analysis*
5.15.3 *Finite Element and Other Approximation Methods*
5.15.3.1 *Error Analysis*
5.20 *Mixed Initial and Boundary Value Problems*
5.20.1 *Analytic Methods*
5.20.1.1 *Error Analysis*
5.20.2 *Explicit Difference Methods*
5.20.2.1 *Error Analysis*
5.20.3 *Implicit Difference Methods, Iterative Schemes*
5.20.3.1 *Error Analysis*
5.20.4 *Finite Element and Other Approximation Methods*
5.20.4.1 *Error Analysis*

6.00 Other Functional Equations

6.05 *Difference Equations*
6.10 *Difference-Differential Equations*
6.15 *Integral Equations*
6.20 *Integro-Differential Equations*
6.25 *Convolution Equations*
6.30 *Variational Equations*
6.35 *Abstract Operator Equations*
6.40 *Stochastic Differential Equations*

7.00 Special Functions

7.05 *Mathematical Constants, Special Polynomials (Nonorthogonal) and Numbers: Bernoulli, Euler, Stirling, Binomial Coefficients, Factorials*
7.10 *Elementary Functions, Powers and Roots*
7.15 *Gamma Functions, Psi Functions, Zeta Functions and Related Functions*
7.20 *Incomplete Gamma Functions*

7.20.1 *Exponential Integral, Cosine and Sine Integrals and Related Functions*
7.20.2 *Error Functions, Fresnel Integrals and Related Functions*
7.25 *Confluent Hypergeometric Functions*
7.25.1 *Parabolic Cylinder Functions*
7.25.2 *Coulomb Wave Functions*
7.30 *Bessel Functions*
7.35 *Lommel Functions, Struve Functions, Anger-Weber Functions and Associated Bessel Functions*
7.40 *Legendre Functions*
7.45 *Gaussian Hypergeometric Functions*
7.50 *Orthogonal Polynomials and Functions*
7.55 *Expansions in Series of Orthogonal Polynomials, Bessel Functions, Other Functions*
7.60 *Elliptical Integrals and Functions, Weierstrass Elliptic Integrals, Related Functions*
7.65 *Mathieu Functions*
7.70 *Spheroidal Wave Functions, Other Wave Functions*
7.75 *Generalized Hypergeometric Functions of a Single Variable*
7.80 *Generalized Hypergeometric Functions of More Than One Variable*
7.85 *Basic Hypergeometric Functions*
7.90 *Integral Transforms*
7.95 *Numerical Tables of Integrals and Transforms*
7.100 *Numerical Tables of Infinite Series*
7.105 *Handbooks of Mathematical Tables and Formulae*

8.00 Probability and Statistics

8.05 *Random Numbers*
8.05.1 *Tables*
8.10 *Monte Carlo, Markov Chains*
8.15 *Multivariate Analysis*
8.20 *Regression Analysis*
8.25 *Analysis of Variance*
8.30 *Time Series Analysis*
8.35 *Nonparametric Analysis*
8.40 *Sequential Analysis*
8.45 *Classical Statistics*
8.50 *Handbooks of Tables and Formulae*

9.00 Number Theory

9.05 *Mersenne, Fermat, Perfect and Related Numbers*
9.10 *Number-Theoretic Functions and Tables*
9.15 *Binomial Congruences, Primitive Roots, Residues, etc.*
9.20 *Primes and Their Distribution*
9.25 *Factorization*
9.30 *Forms and Diophantine Equations*
9.35 *Continued Fractions and Diophantine Approximation*
9.40 *Normal Numbers and Distribution of Digits*
9.45 *Modular Computation*

10.00 Algebra and Combinatorial Theory

10.05 *Groups, Rings, Fields, Algebras*
10.10 *Finite Fields*
10.15 *Irreducible Polynomials*
10.20 *Arrays, Latin Squares*
10.25 *Projective Planes, Block Designs, Difference Sets*
10.30 *Permutations, Combinatorial Identities*
10.35 *Graph Theory*

11.00 Geometry

11.05 *Coordinate Conversion Tables*
11.10 *Polyhedra and Polytopes*
11.15 *Graph Theory*

12.00 Computers and Other Aids to Computation

12.05 *Digital Computers*

12.05.1 *Coding, Programming and Software*
12.05.2 *Design and Hardware*
12.05.3 *Computer Aided Instruction*
12.10 *Analog Computers*
12.10.1 *Design and Hardware*
12.15 *Digital-Analog (Hybrid) Computers*
12.15.1 *Coding, Programming and Software*
12.15.2 *Design and Hardware*
12.20 *Mechanical Aids to Computation—Slide Rules, Desk Calculators, Others*
12.25 *Nomographs*

13.00 Applications

13.05 *Physical and Chemical Sciences*
13.05.1 *Weights and Measures Tables*
13.10 *Astronomy, Astrophysics*
13.10.1 *Navigation Tables*
13.15 *Engineering Sciences*
13.15.1 *Engineering Tables*
13.20 *Earth Sciences, Atmospheric Sciences, Fluid Dynamics*
13.20.1 *Triangulation and Geodetic Tables*
13.25 *Biology and the Behavioral Sciences*
13.30 *Economics and the Social Sciences*
13.35 *Information Theory, Automata, Logic Control Theory, Dynamic Programming, Cybernetics*
13.40 *Management Problems, Data Analysis and Processing*
13.45 *Actuarial Science*
13.45.1 *Actuarial and Financial Tables*
13.50 *Humanities, Linguistics*
13.55 *Logic*

14.00 Miscellaneous

14.05 *Mathematical Research, Mathematical Education*

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

Author	Review Number	Classification	Page
ATKINSON, KENDALL E.	2	6.15, 12.05.1	322
BATHE, KLAUS-JÜRGEN & WILSON, EDWARD L.	9	3.10, 3.15, 5.00, 12.05.1	799
BRINK-KJAER, OLE	12	See: SKOVGAARD, OVE, SVENDSEN, IB A., JONSSON, IVAR G. & BRINK-KJAER, OLE	804
BUNCH, JAMES R. & ROSE, DONALD J., Editors	8	3.00, 3.25	799
CADETE, MARIA ODETE RODRIGUES	13	2.10.1	1043
CRARY, F. D. & ROSSER, J. B.	11	7.15, 9.10	803
GASS, SAUL I.	16	3.25	1045
GILL, ARTHUR	7	10.00	612
GOSPER, R. WILLIAM, JR.	15	2.30, 7.05	1044
HANSEN, ELDON R.	10	7.00	800
HENRICI, PETER	4	14.00	325
HINDIN, HARVEY J.	5	9.00	612
JONSSON, IVAR G.	12	See: SKOVGAARD, OVE, SVENDSEN, IB A., JONSSON, IVAR G. & BRINK-KJAER, OLE	804
LUKE, YUDELL L.	3	7.75	323
MARCHUK, G. I.	1	4.00, 5.00	321
NEWMAN, MORRIS	6	9.00	612
ROSE, DONALD J.	8	See: BUNCH, JAMES R. & ROSE, DONALD J., Editors	799
ROSSER, J. B.	11	See: CRARY, F. D. & ROSSER, J. B.	803
SKOVGAARD, OVE, SVENDSEN, IB A., JONSSON, IVAR G. & BRINK-KJAER, OLE	12	13.20	804
SVENDSEN, IB A.	12	See: SKOVGAARD, OVE, SVENDSEN, IB A., JONSSON, IVAR G. & BRINK-KJAER, OLE	804
TODD, MICHAEL J.	14	2.20, 13.30, 3.25	1043
WILSON, EDWARD L.	9	See: BATHE, KLAUS-JÜRGEN & WILSON, EDWARD L.	799

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

Author	Review Number	Title	Page
2.00 Selected Topics in Numerical Analysis			
2.10.1 One-Dimensional			
CADETE, MARIA ODETE RODRIGUES	13	Cálculo Automático de Integrais Definidos	1043
2.20 Roots of Equations			
TODD, MICHAEL J.	14	The Computation of Fixed Points and Applications	1043
2.30 Continued Fractions			
GOSPER, R. WILLIAM, JR.	15	Table of the Simple Continued Fraction for π and the Derived Decimal Approximation	1044
3.00 Linear Algebra			
BUNCH, JAMES R. & ROSE, DONALD J., Editors	8	Sparse Matrix Computations	799

Author	Review Number	Title	Page
3.10 *Linear Equations*			
BATHE, KLAUS-JÜRGEN & WILSON, EDWARD L.	9	Numerical Methods in Finite Element Analysis	799
3.15 *Eigenvalues and Eigenvectors*			
BATHE, KLAUS-JÜRGEN & WILSON, EDWARD L.	9	Numerical Methods in Finite Element Analysis	799
3.25 *Linear and Nonlinear Programming, Theory of Games*			
BUNCH, JAMES R. & ROSE, DONALD J., Editors	8	Sparse Matrix Computations	799
GASS, SAUL I.	16	Linear Programming: Methods and Applications	1045
TODD, MICHAEL J.	14	The Computation of Fixed Points and Applications	1043
4.00 Ordinary Differential Equations			
MARCHUK, G. I.	1	Methods of Numerical Mathematics	321
5.00 Partial Differential Equations			
BATHE, KLAUS-JÜRGEN & WILSON, EDWARD L.	9	Numerical Methods in Finite Element Analysis	799
MARCHUK, G. I.	1	Methods of Numerical Mathematics	321
6.00 Other Functional Equations			
6.15 *Integral Equations*			
ATKINSON, KENDALL E.	2	A Survey of Numerical Methods for the Solution of Fredholm Integral Equations of the Second Kind	322
7.00 Special Functions			
HANSEN, ELDON R.	10	A Table of Series and Products	800
7.05 *Mathematical Constants, Special Polynomials (Nonorthogonal) and Numbers: Bernoulli, Euler, Stirling, Binomial Coefficients, Factorials*			
GOSPER, R. WILLIAM, JR.	15	Table of the Simple Continued Fraction for π and the Derived Decimal Approximation	1044
7.15 *Gamma Functions, Psi Functions, Zeta Functions and Related Functions*			
CRARY, F. D. & ROSSER, J. B.	11	High Precision Coefficients Related to the Zeta Function	803
7.75 *Generalized Hypergeometric Functions of a Single Variable*			
LUKE, YUDELL L.	3	Mathematical Functions and Their Approximations	323
9.00 Number Theory			
HINDIN, HARVEY J.	5	Tables of m-ary Partitions	612
NEWMAN, MORRIS	6	The Number of Subgroups of the Classical Modular Group of Index N	612
9.10 *Number-Theoretic Functions and Tables*			
CRARY, F. D. & ROSSER, J. B.	11	High Precision Coefficients Related to the Zeta Function	803
10.00 Algebra and Combinatorial Theory			
GILL, ARTHUR	7	Applied Algebra for the Computer Sciences	612
12.00 Computers and Other Aids to Computation			
12.05.1 *Coding, Programming and Software*			
ATKINSON, KENDALL E.	2	A Survey of Numerical Methods for the Solution of Fredholm Integral Equations of the Second Kind	322
BATHE, KLAUS-JÜRGEN & WILSON, EDWARD L.	9	Numerical Methods in Finite Element Analysis	799

Author	Review Number	Title	Page
13.00 Applications			
13.20 Earth Sciences, Atmospheric Sciences, Fluid Dynamics			
SKOVGAARD, OVE, SVENDSEN, IB A., JONSSON, IVAR G. & BRINK-KJAER, OLE	12	Sinusoidal and Cnoidal Gravity Waves—Formulae and Tables	804
13.30 Economics and the Social Sciences			
TODD, MICHAEL J.	14	The Computation of Fixed Points and Applications	1043
14.00 Miscellaneous			
HENRICI, PETER	4	Applied and Computational Complex Analysis. Vol. 1	325

INDEX OF TABLE ERRATA

No.	Author	Title	
535	ABRAMOWITZ, MILTON & STEGUN, IRENE A.	Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables	614
539	ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables	806
544	ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables	1046
537	BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE	Mathematical Tables, Vol. VI: Bessel Functions, Part I	615
545	BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE	Mathematical Tables, v. X: Bessel Functions, Part II	1046
531		Cumulative Index to Mathematics of Computation, Vols. 1–23 (1943–1969)	327
536	EAGLE, ALBERT	The Elliptic Functions as They Should Be	614
532	ERDÉLYI, A., MAGNUS, W., OBERHETTINGER, F. & TRICOMI, F. G.	Tables of Integral Transforms, Vol. II	328
533	ERDÉLYI, A., MAGNUS, W., OBERHETTINGER, F. & TRICOMI, F. G.	Tables of Integral Transforms, Vol. 2	614
534	GRADSHTEYN, I. S. & RYZHIK, I. M.	Tables of Integrals, Series, and Products	614
540	GRAY, A., MATHEWS, G. B. & MACROBERT, T. M.	A Treatise on Bessel Functions and Their Applications to Physics	806
546	GRAY, A., MATHEWS, G. B. & MACROBERT, T. M.	A Treatise on Bessel Functions and Their Applications to Physics	1046
541	JARDEN, DOV	Recurring Sequences	806
542	LEVINE, JACK & DALTON, R. E.	Minimum Periods, Modulo p, of First-Order Bell Exponential Integers	807
547	LJUNGGREN, W.	Über die Lösung einiger unbestimmten Gleichungen vierten Grades	1049
543	SELBY, SAMUEL M., Editor	Standard Mathematical Tables	807
538	WALL, C. R., CREWS, P. L. & JOHNSON, D. B.	Density Bounds for the Sum of Divisors Function	616

INDEX OF CORRIGENDA

Author	Title	
BELLMAN, RICHARD & WING, MILTON C.	An Introduction to Invariant Imbedding	617
BOWNDS, J. M.	On Solving Weakly Singular Volterra Equations of the First Kind with Galerkin Approximations	808

Author	*Title*	*Page*
GILLIES, D. B.	Three New Mersenne Primes and a Statistical Theory	1051
SCHETT, A.	Properties of the Taylor Series Coefficients of Jacobian Functions	330

INDEX OF ACKNOWLEDGMENTS

Author	*Title*	
BRENNER, ANDREW	Acknowledgement	331

INDEX OF MICROFICHE SUPPLEMENTS

Author	*Title*	*MOC Issue*
CATO, CRAIG	Addendum to "The Orders of the Known Simple Groups as Far as One Trillion"	April
JELTSCH, ROLF	Multistep Methods Using Higher Derivatives and Damping at Infinity	January
PEXTON, ROBERT L. & STEIGER, ARNO D.	Roots of Two Transcendental Equations Involving Spherical Bessel Functions	July
PEXTON, ROBERT L. & STEIGER, ARNO D.	Roots of Two Transcendental Equations Determining the Frequency Spectra of Standing Spherical Electromagnetic Waves	October
SCHETT, ALOIS	Addendum to "Properties of the Taylor Series Expansion Coefficients of the Jacobian Elliptic Functions"	January